

SEQUENCE LISTING

<110> EVOTEC NeuroSciences GmbH

<120> DIAGNOSTIC AND THERAPEUTIC USE OF A RAB FAMILY
GTP-BINDING PROTEIN FOR NEURODEGENERATIVE DISEASES

<130> 021863ep ME/BM

<140> 02015429.0

<141> 2002-07-12

<160> 15

<170> PatentIn Ver. 2.1

<210> 1

<211> 194

<212> PRT

<213> Homo sapiens

<400> 1

Met Ala Ile Arg Glu Leu Lys Val Cys Leu Leu Gly Asp Thr Gly Val

1

5

10

15

Gly Lys Ser Ser Ile Val Cys Arg Phe Val Gln Asp His Phe Asp His

20

25

30

Asn Ile Ser Pro Thr Ile Gly Ala Ser Phe Met Thr Lys Thr Val Pro

35

40

45

Cys Gly Asn Glu Leu His Lys Phe Leu Ile Trp Asp Thr Ala Gly Gln

50

55

60

Glu Arg Phe His Ser Leu Ala Pro Met Tyr Tyr Arg Gly Ser Ala Ala

65

70

75

80

Ala Val Ile Val Tyr Asp Ile Thr Lys Gln Asp Ser Phe Tyr Thr Leu

85

90

95

Lys Lys Trp Val Lys Glu Leu Lys Glu His Gly Pro Glu Asn Ile Val
100 105 110

Met Ala Ile Ala Gly Asn Lys Cys Asp Leu Ser Asp Ile Arg Glu Val
115 120 125

Pro Leu Lys Asp Ala Lys Glu Tyr Ala Glu Ser Ile Gly Ala Ile Val
130 135 140

Val Glu Thr Ser Ala Lys Asn Ala Ile Asn Ile Glu Glu Leu Phe Gln
145 150 155 160

Gly Ile Ser Arg Gln Ile Pro Pro Leu Asp Pro His Glu Asn Gly Asn
165 170 175

Asn Gly Thr Ile Lys Val Glu Lys Pro Thr Met Gln Ala Ser Arg Arg
180 185 190

Cys Cys

<210> 2

<211> 585

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: complete cDNA
of RAB 31 gene

<400> 2

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gc 60

atcgtgtgtc gatttgtcca ggatcacttt gaccacaaca tcagccctac tattgggg
ca 120

tcttttatga ccaaaactgt gccttgtgga aatgaacttc acaagttcct catctggg

ac 180
actgctggtc aggaacgggt tcattcattg gctcccatgt actatcgagg ctcagctg
ca 240
gctgttatcg tgtatgatat taccaagcag gattcatttt ataccttgaa gaaatggg
tc 300
aaggagctga aagaacatgg tccagaaaac attgtaatgg ccatcgctgg aaacaagt
gc 360
gacctctcag atattagggg ggttcccctg aaggatgcta aggaatacgc tgaatcca
ta 420
ggtgccatcg tggttgagac aagtgcacaaa aatgctatta atatcgaaga gctctttc
aa 480
ggaatcagcc gccagatccc acccttggac ccccatgaaa atggaaacaa tggaacaa
tc 540
aaagttgaga agccaacccat gcaagccagc cgccggtgct gttga
585

<210> 3
<211> 212
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: cDNA fragment
of RAB31 gene

<400> 3
accgtggacc acggcccttg ggtcaacagc accggcggct ggcttgcatt gttggctt
ct 60
caactttgat tgttccattg tttccacttt catggggggtc caaggggtggg atctggcg
gc 120
tgattccttg aaagagctct tcgatattaa tagcattttt tgcacttgtc tcaaccac
ga 180
tggcacctat ggattcagcg tattccttag ca.
212

<210> 4
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer for
RAB31 gene

<400> 4
actgctgaag gaccctacgc
20

<210> 5

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer for
RAB31 gene

<400> 5
gatgcaaagc cagtgtgctc
20

<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer for
cyclophilin B gene

<400> 6
actgaagcac tacgggcctg
20

<210> 7
<211> 19
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<220>
<223> Description of Artificial Sequence: Primer for
cyclophilin B gene

<400> 7
agccgttggt gtctttgcc
19

<210> 8
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer for
ribosomal protein S9 gene

<400> 8
ggtcaaattt accctggcca

20

<210> 9
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer for
ribosomal protein S9 gene

<400> 9
tctcatcaag cgtcagcagt tc
22

<210> 10
<211> 19
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer for
beta-actin gene

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tggaacggtg aaggtgaca
19

<210> 11
<211> 19
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beta-actin gene

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<210> 12
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<223> Description of Artificial Sequence: Primer for the

GAPDH gene

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cgtcacgggt gtgaaccatg
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<210> 13
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<213> Artificial Sequence

<220>
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GAPDH gene

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gctaagcagt tgggtggtgca g
21

<210> 14
<211> 21
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer for the
transferrin receptor gene

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gtcgctgggc agttcgtgat t
21

<210> 15
<211> 23
<212> DNA
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<220>
<223> Description of Artificial Sequence: Primer for the
transferrin receptor gene

<400> 15
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23